

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2006/000507

<p>A. CLASSIFICATION OF SUBJECT MATTER</p> <p>IPC: H05B 37/02 (2006.01) , H01L 33/00 (2006.01) , G05D 27/02 (2006.01)</p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>																																			
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC (2006.01): H05B37/02, H01L33/00, G05D27/02</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) Epodoc, Delphion, Canadian Patent Database. Terms used: light emitting, led, oled, white, red, green, blue, amber, rgb, feedback, sensor, colour temperature, color temperature, cct, indium, gallide, ingan, and others.</p>																																			
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 2004/0052076 (Mueller et al.) 18 March 2004 (18-03-2004)</td> <td>1 to 7, 9 to 16</td> </tr> <tr> <td>Y</td> <td>claim 1; claim 3; paragraph 0188</td> <td>8, 17</td> </tr> <tr> <td>Y</td> <td>US 2003/0107887 (Eberl) 12 June 2003 (12-06-2003)</td> <td>1 to 17</td> </tr> <tr> <td></td> <td>figure 1; paragraphs 0038 to 0041</td> <td></td> </tr> <tr> <td>Y</td> <td>JP 2002270899 (Yasuo et al.) 20 September 2002 (20-09-2002)</td> <td>1 to 17</td> </tr> <tr> <td></td> <td>abstract</td> <td></td> </tr> <tr> <td>Y</td> <td>US 6,858,869 (Fujiwara) 22 February 2005 (22-02-2005)</td> <td>8, 17</td> </tr> <tr> <td></td> <td>abstract</td> <td></td> </tr> <tr> <td>A</td> <td>US 2002/0048177 (Rahm et al.) 25 April 2002 (25-04-2002)</td> <td></td> </tr> <tr> <td>A</td> <td>US 6,441,558 (Muthu et al.) 27 August 2002 (27-08-2002)</td> <td></td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2004/0052076 (Mueller et al.) 18 March 2004 (18-03-2004)	1 to 7, 9 to 16	Y	claim 1; claim 3; paragraph 0188	8, 17	Y	US 2003/0107887 (Eberl) 12 June 2003 (12-06-2003)	1 to 17		figure 1; paragraphs 0038 to 0041		Y	JP 2002270899 (Yasuo et al.) 20 September 2002 (20-09-2002)	1 to 17		abstract		Y	US 6,858,869 (Fujiwara) 22 February 2005 (22-02-2005)	8, 17		abstract		A	US 2002/0048177 (Rahm et al.) 25 April 2002 (25-04-2002)		A	US 6,441,558 (Muthu et al.) 27 August 2002 (27-08-2002)	
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.</p>																																			
<p>* Special categories of cited documents :</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed																								
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<p>Date of the actual completion of the international search</p> <p>4 August 2006 (04-08-2006)</p>		<p>Date of mailing of the international search report</p> <p>15 August 2006 (15-08-2006)</p>																																	
<p>Name and mailing address of the ISA/CA</p> <p>Canadian Intellectual Property Office</p> <p>Place du Portage I, C114 - 1st Floor, Box PCT</p> <p>50 Victoria Street</p> <p>Gatineau, Quebec K1A 0C9</p> <p>Facsimile No.: 001(819)953-2476</p>		<p>Authorized officer</p> <p>Andrew O'Malley (819) 953-5481</p>																																	

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2006/000507

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US2004052076	18-03-2004	AT222013T T	15-08-2002
		AT301802T T	15-08-2005
		AT308869T T	15-11-2005
		AU757000 B2	30-01-2003
		AU1782501 A	30-05-2001
		AU1924199 A	05-07-1999
		AU3947002 A	27-05-2002
		AU4148402 A	11-06-2002
		AU5312999 A	17-01-2000
		AU5913401 A	07-11-2001
		AU6347300 A	30-01-2001
		AU7001801 A	02-01-2002
		AU7369401 A	13-02-2002
		AU7718501 A	13-02-2002
		AU7730800 A	30-04-2001
		AU8539801 A	18-02-2002
		AU8865901 A	13-03-2002
		AU9111101 A	02-04-2002
		AU9206098 A	16-03-1999
		AU2002360721 A1	09-07-2003
		AU2003210890 A1	02-09-2003
		AU2003237827 A1	11-11-2003
		AU2003265764 A1	19-03-2004
		AU2003268540 A1	29-03-2004
		AU2003279157 A1	23-04-2004
		AU2004200183 A1	12-02-2004
		CA2302227 A1	04-03-1999
		CA2314163 A1	24-06-1999
		CA2336184 A1	06-01-2000
		CA2466717 A1	04-03-1999
		DE60021911D D1	15-09-2005
		DE60021911T T2	18-05-2006
		DE60023730D D1	08-12-2005
		DE60023730T T2	06-07-2006
		DE69807092D D1	12-09-2002
		DE69807092T T2	08-05-2003
		EP1016062 A1	05-07-2000
		EP1040398 A2	04-10-2000
		EP1090459 A2	11-04-2001
		EP1172748 A2	16-01-2002
		EP1195740 A2	10-04-2002
		EP1224843 A1	24-07-2002
		EP1224845 A1	24-07-2002
		EP1234140 A2	28-08-2002
		EP1287724 A1	05-03-2003
		EP1295515 A1	26-03-2003
		EP1337784 A2	27-08-2003
		EP1340412 A2	03-09-2003
		EP1356610 A2	29-10-2003
		EP1388276 A2	11-02-2004
		EP1393599 A2	03-03-2004
		EP1395975 A2	10-03-2004
		EP1422975 A1	26-05-2004
		EP1428415 A1	16-06-2004
		EP1459600 A2	22-09-2004
		EP1474633 A2	10-11-2004
		EP1501763 A2	02-02-2005
		EP1502483 A1	02-02-2005
		EP1535495 A2	01-06-2005

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2006/000507

EP1610593 A2	28-12-2005
EP1620843 A2	01-02-2006
EP1624728 A1	08-02-2006
ES2182358T T3	01-03-2003
ES2251396T T3	01-05-2006
ES2253274T T3	01-06-2006
HK1025416 A1	01-11-2002
JP2001514432T T	11-09-2001
JP2002519989T T	02-07-2002
JP2003504829T T	04-02-2003
JP2003510856T T	18-03-2003
JP2003517705T T	27-05-2003
JP2003531467T T	21-10-2003
JP2004006253 A	08-01-2004
JP2004501497T T	15-01-2004
JP2004508162T T	18-03-2004
JP2004511878T T	15-04-2004
JP2004524650T T	12-08-2004
JP2004529455T T	24-09-2004
JP2004534355T T	11-11-2004
JP2004534356T T	11-11-2004
JP2005504411T T	10-02-2005
JP2005509245T T	07-04-2005
JP2005510007T T	14-04-2005
JP2005517278T T	09-06-2005
JP2005524960T T	18-08-2005
JP2005528733T T	22-09-2005
JP2005537613T T	08-12-2005
US6016038 A	18-01-2000
US6150774 A	21-11-2000
US6166496 A	26-12-2000
US6211626 B1	03-04-2001
US6292901 B1	18-09-2001
US6340868 B1	22-01-2002
US6459919 B1	01-10-2002
US6528954 B1	04-03-2003
US6548967 B1	15-04-2003
US6577080 B2	10-06-2003
US6608453 B2	19-08-2003
US6624597 B2	23-09-2003
US6717376 B2	06-04-2004
US6720745 B2	13-04-2004
US6774584 B2	10-08-2004
US6777891 B2	17-08-2004
US6781329 B2	24-08-2004
US6788011 B2	07-09-2004
US6801003 B2	05-10-2004
US6806659 B1	19-10-2004
US6869204 B2	22-03-2005
US6888322 B2	03-05-2005
US6897624 B2	24-05-2005
US6936978 B2	30-08-2005
US6965205 B2	15-11-2005
US6967448 B2	22-11-2005
US6975079 B2	13-12-2005
US7014336 B1	21-03-2006
US7031920 B2	18-04-2006
US7038398 B1	02-05-2006
US7038399 B2	02-05-2006
US7042172 B2	09-05-2006
US7064498 B2	20-06-2006
US2002038157 A1	28-03-2002
US2002044066 A1	18-04-2002

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2006/000507

US2002048169 A1	25-04-2002
US2002074559 A1	20-06-2002
US2002078221 A1	20-06-2002
US2002101197 A1	01-08-2002
US2002113555 A1	22-08-2002
US2002130627 A1	19-09-2002
US2002152045 A1	17-10-2002
US2002153851 A1	24-10-2002
US2002163316 A1	07-11-2002
US2002171377 A1	21-11-2002
US2002171378 A1	21-11-2002
US2002176259 A1	28-11-2002
US2003011538 A1	16-01-2003
US2003028260 A1	06-02-2003
US2003057884 A1	27-03-2003
US2003057887 A1	27-03-2003
US2003057890 A1	27-03-2003
US2003076281 A1	24-04-2003
US2003100837 A1	29-05-2003
US2003133292 A1	17-07-2003
US2003222587 A1	04-12-2003
US2004090191 A1	13-05-2004
US2004090787 A1	13-05-2004
US2004105261 A1	03-06-2004
US2004130909 A1	08-07-2004
US2004155609 A1	12-08-2004
US2004160199 A1	19-08-2004
US2004178751 A1	16-09-2004
US2004212320 A1	28-10-2004
US2004212993 A1	28-10-2004
US2004240890 A1	02-12-2004
US2004257007 A1	23-12-2004
US2005030744 A1	10-02-2005
US2005035728 A1	17-02-2005
US2005036300 A1	17-02-2005
US2005040774 A1	24-02-2005
US2005041161 A1	24-02-2005
US2005041424 A1	24-02-2005
US2005044617 A1	03-03-2005
US2005047132 A1	03-03-2005
US2005047134 A1	03-03-2005
US2005062440 A1	24-03-2005
US2005063194 A1	24-03-2005
US2005099824 A1	12-05-2005
US2005116667 A1	02-06-2005
US2005151489 A1	14-07-2005
US2005174473 A1	11-08-2005
US2005213352 A1	29-09-2005
US2005213353 A1	29-09-2005
US2005218838 A1	06-10-2005
US2005218870 A1	06-10-2005
US2005219872 A1	06-10-2005
US2005231133 A1	20-10-2005
US2005236998 A1	27-10-2005
US2005248299 A1	10-11-2005
US2005253533 A1	17-11-2005
US2005275626 A1	15-12-2005
US2005276053 A1	15-12-2005
US2005285547 A1	29-12-2005
US2006002110 A1	05-01-2006
US2006016960 A1	26-01-2006
US2006022214 A1	02-02-2006

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2006/000507

US2006050509 A9	09-03-2006
US2006076908 A1	13-04-2006
US2006098077 A1	11-05-2006
US2006104058 A1	18-05-2006
US2006109649 A1	25-05-2006
US2006152172 A9	13-07-2006
US2006158881 A1	20-07-2006
WO0001067 A2	06-01-2000
WO0105195 A1	18-01-2001
WO0124584 A1	05-04-2001
WO0136864 A2	25-05-2001
WO0182657 A1	01-11-2001
WO0199475 A1	27-12-2001
WO0210847 A2	07-02-2002
WO0211497 A1	07-02-2002
WO0212127 A2	14-02-2002
WO0218913 A2	07-03-2002
WO0225842 A2	28-03-2002
WO0240921 A2	23-05-2002
WO0245467 A2	06-06-2002
WO9910867 A1	04-03-1999
WO9931560 A2	24-06-1999
WO02061330 A2	08-08-2002
WO02091805 A2	14-11-2002
WO02098182 A2	05-12-2002
WO02098183 A1	05-12-2002
WO02099780 A2	12-12-2002
WO02101702 A2	19-12-2002
WO03024269 A1	27-03-2003
WO03026358 A1	27-03-2003
WO03055273 A2	03-07-2003
WO03067934 A2	14-08-2003
WO03096761 A1	20-11-2003
WO2004021747 A2	11-03-2004
WO2004023850 A2	18-03-2004
WO2004032572 A2	15-04-2004
WO2004080291 A2	23-09-2004
WO2004094896 A2	04-11-2004
WO2005012997 A2	10-02-2005
WO2005052751 A2	09-06-2005
WO2005060309 A2	30-06-2005
WO2005084339 A2	15-09-2005
WO2005089293 A2	29-09-2005
WO2005089309 A2	29-09-2005
WO2006023149 A2	02-03-2006
WO2006031753 A2	23-03-2006
WO2006069002 A2	29-06-2006
WO2006069117 A2	29-06-2006
WO2006071628 A2	06-07-2006

Continued...

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2006/000507

US2003107887	12-06-2003	DE10031303 A1	10-01-2002
		DE50110162D D1	27-07-2006
		EP1304019 A1	23-04-2003
		US6909377 B2	21-06-2005
		WO0201921 A1	03-01-2002
JP2002270899	20-09-2002	NONE	
US6858869	22-02-2005	CA2427559 A1	15-11-2003
		CN1248320C C	29-03-2006
		EP1363335 A2	19-11-2003
		JP3702863B2 B2	05-10-2005
		JP3705272B2 B2	12-10-2005
		JP3707446B2 B2	19-10-2005
		TW229460 B	11-03-2005
		US2005110034 A1	26-05-2005
US2002048177	25-04-2002	NONE	
US6441558	27-08-2002	AT301918T T	15-08-2005
		CN1419797 A	21-05-2003
		DE60112612D D1	15-09-2005
		DE60112612T T2	14-06-2006
		EP1346609 A2	24-09-2003
		JP2004515891T T	27-05-2004
		TW535455 B	01-06-2003
		WO0247438 A2	13-06-2002